## **Course Description Form**

17001	Tiours	Outcomes	C.iii Oi Gubjeot Hame	Loanning med		
10. Course Struct	Hours	Required Learning	Unit or subject name	Learning metho		
10. Course Street		4- Homework as		o.		
Strategy Strategy		1- Theoretical lectures. Using the whiteboard and da a 2- Discussion lectures Tutorials. 3- Practical experiments in laboratories.				
9. Teaching an	nd Learning					
		<ul> <li>4- Classification of medical allergens according to use</li> <li>5- The purpose of using medical sensors with the human body</li> </ul>				
		3- Knowing the types of medical allergens				
		2- How medical allergens develop over time				
Course Objectives		• 1- Identify the basic parts of the medical sensor and how to ma				
8. Course Obje	ectives					
Email:						
7. Course administrator's name (mention all, if more than one name)  Name:						
45 hours						
6. Number of C	redit Hou	rs (Total) / Number o	f Units (Total)			
( N1 C (	7 1'4 II.	(T. (.1) / NI1	CII.' (T 1)			
5. Available Attendance Forms:						
To Bescription	Troparae	1011 Batel 19/0/2021				
4. Description	Prenarat	ion Date: 19/3/2024				
3. Semester / Year: second \ fifth year						
2. Course cou	C. WBM-52-0	98				
2. Course Code: wbm-52-08						
1. Course Nam	ie: biosen	sor				
1 Carrage Name	h.:					

First	3	Definition, characteristics, principles, and requirements.	Definition, characteristics, principles, and requirements.	theory
Second	3	Electrodes and definition	Electrodes and definition	theory
Third	3	electronic CCT and types.	electronic CCT and types.	theory
Fourth	3	Surface electrodes	Surface electrodes	theory
Fifth	3	Needle electrodes	Needle electrodes	theory
Sixth	3	Transducers and properties.	Transducers and properties.	theory
Seventh	3			theory
Eighth	3	Resistive transducers and thermometric transducers.	Resistive transducers and thermometric transducers.	theory
ninth	3	Medical applications	Medical applications	theory
tenth	3	Piezoelectric	Piezoelectric	theory
eleventh	3	ultrasound transducers	ultrasound transducers	theory
twelveth	3	Mechanical transducers, and medical applications.	Mechanical transducers, and medical applications.	theory
Thirteenth	3			theory
fourteenth	3	Chemical transducers and medical applications	Chemical transducers and medical applications	theory
fifteenth	3	pressure measurement transducers.	pressure measurement transducers.	theory

## 11. Course Evaluation

Distributing the score out of 100 according to the tasks assigned to the student such as daily preparatietc

12. Learning and Teaching Resources			
Required textbooks (curricular books, if any)	Wang, P., & Liu, Q. (201 Business Media.	). Bio	
Main references (sources)	1- Wang, P., & Liu, Q. (2017 & Business Media.	. Bio	
	2- Introduction to Biomedical 1	ngine	
Recommended books and references (scientific journals, reports)	Standard handbook of biomedical senso	S	
Electronic References, Websites	https://books.google.iq/books/about/Ha	dbook	